Udo D Schwarz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

139
papers

4,623
citations

41
papers

64
g-index

5.7
ext. papers

25.45
ext. citations

avg, IF

L-index

#	Paper	IF	Citations
139	Scalable production of single 2D van der Waals layers through atomic layer deposition: bilayer silica on metal foils and films. <i>2D Materials</i> , 2022 , 9, 021003	5.9	1
138	Correlating nano-tribological behavior with the free volume of Zr-based bulk metallic glasses via their fictive temperature. <i>Wear</i> , 2022 , 494-495, 204247	3.5	0
137	Single-Crystal Nanostructure Arrays Forming Epitaxially through Thermomechanical Nanomolding. <i>Nano Letters</i> , 2021 , 21, 10054-10061	11.5	1
136	Using delaunay triangularization to characterize non-affine displacement fields during athermal, quasistatic deformation of amorphous solids. <i>Soft Matter</i> , 2021 , 17, 8612-8623	3.6	
135	Atomic-scale homogeneous plastic flow beyond near-theoretical yield stress in a metallic glass. <i>Communications Materials</i> , 2021 , 2,	6	3
134	Angstrom-scale replication of surfaces with crystallized bulk metallic glasses. <i>Materials Today Nano</i> , 2021 , 16, 100145	9.7	1
133	Revealing the relationships between alloy structure, composition and plastic deformation in a ternary alloy system by a combinatorial approach. <i>Journal of Materials Science and Technology</i> , 2021 , 84, 97-104	9.1	1
132	Effect of fictive temperature on tribological properties of Zr44Ti11Cu10Ni10Be25 bulk metallic glasses. <i>Wear</i> , 2021 , 486-487, 204075	3.5	1
131	Relaxation and crystallization studied by observing the surface morphology evolution of atomically flat Pt57.5Cu14.7Ni5.3P22.5 upon annealing. <i>Scripta Materialia</i> , 2020 , 182, 32-37	5.6	5
130	Atomic imprinting in the absence of an intrinsic length scale. APL Materials, 2020, 8, 111104	5.7	6
129	Effect of the fictive temperature on the modulus, hardness, yield strength, dynamic mechanical and creep response of Zr44Ti11Cu10Ni10Be25 metallic glasses. <i>Journal of Alloys and Compounds</i> , 2020 , 819, 152979	5.7	8
128	Atomic-Scale Imprinting by Sputter Deposition of Amorphous Metallic Films. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 52908-52914	9.5	3
127	Dependence of Modulus and Hardness on the Annealing Conditions of Pt57.5Cu14.7Ni5.3P22.5 Bulk Metallic Glass. <i>MRS Advances</i> , 2019 , 4, 73-79	0.7	4
126	Revealing surface-state transport in ultrathin topological crystalline insulator SnTe films. <i>APL Materials</i> , 2019 , 7, 051106	5.7	6
125	Accuracy of tip-sample interaction measurements using dynamic atomic force microscopy techniques: Dependence on oscillation amplitude, interaction strength, and tip-sample distance. <i>Review of Scientific Instruments</i> , 2019 , 90, 033707	1.7	4
124	Accelerated discovery and mechanical property characterization of bioresorbable amorphous alloys in the Mg-Zn-Ca and the Fe-Mg-Zn systems using high-throughput methods. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 5392-5400	7.3	8
123	Tuning two-dimensional phase formation through epitaxial strain and growth conditions: silica and silicate on NiPd(111) alloy substrates. <i>Nanoscale</i> , 2019 , 11, 21340-21353	7.7	5

(2016-2019)

122	Structure of a Two-Dimensional Silicate Layer Formed by Reaction with an Alloy Substrate. <i>Chemistry of Materials</i> , 2019 , 31, 851-861	9.6	4
121	Quantifying Tip-Sample Interactions in Vacuum Using Cantilever-Based Sensors: An Analysis. <i>Physical Review Applied</i> , 2018 , 9,	4.3	15
120	Mechanical glass transition revealed by the fracture toughness of metallic glasses. <i>Nature Communications</i> , 2018 , 9, 3271	17.4	76
119	Regulation of Mesenchymal Stem Cell Differentiation by Nanopatterning of Bulk Metallic Glass. <i>Scientific Reports</i> , 2018 , 8, 8758	4.9	27
118	Suppression of the spectral weight of topological surface states on the nanoscale via local symmetry breaking. <i>Physical Review Materials</i> , 2018 , 2,	3.2	3
117	Atomic imprinting into metallic glasses. <i>Communications Physics</i> , 2018 , 1,	5.4	19
116	Atomic Force Microscopy: Methods and Applications 2017 , 70-75		5
115	Length Scale and Dimensionality of Defects in Epitaxial SnTe Topological Crystalline Insulator Films. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1601011	4.6	5
114	Epitaxial NiPd (111) Alloy Substrates with Continuously Tunable Lattice Constants for 2D Materials Growth. <i>ACS Applied Materials & amp; Interfaces</i> , 2017 , 9, 11266-11271	9.5	19
113	Growth of two dimensional silica and aluminosilicate bilayers on Pd(111): from incommensurate to commensurate crystalline. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14001-14011	3.6	23
112	Numerical performance analysis of quartz tuning fork-based force sensors. <i>Measurement Science and Technology</i> , 2017 , 28, 015102	2	6
111	Optimizing qPlus sensor assemblies for simultaneous scanning tunneling and noncontact atomic force microscopy operation based on finite element method analysis. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 657-666	3	10
110	Pulsed Laser Beam Welding of PdCuNiP Bulk Metallic Glass. Scientific Reports, 2017, 7, 7989	4.9	19
109	Low-Temperature Scanning Probe Microscopy. Springer Handbooks, 2017, 769-808	1.3	
108	Using ZnO-CrO-ZnO heterostructures to characterize polarization penetration depth through non-polar films. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 32492-32504	3.6	2
107	Role of double TiO2 layers at the interface of FeSe/SrTiO3 superconductors. <i>Physical Review B</i> , 2016 , 93,	3.3	35
106	Surface phase, morphology, and charge distribution transitions on vacuum and ambient annealed SrTiO3(100). <i>Physical Review B</i> , 2016 , 93,	3.3	31
105	Combinatorial development of antibacterial Zr-Cu-Al-Ag thin film metallic glasses. <i>Scientific Reports</i> , 2016 , 6, 26950	4.9	43

104	Regulation of cell-cell fusion by nanotopography. Scientific Reports, 2016, 6, 33277	4.9	26
103	Exploring site-specific chemical interactions at surfaces: a case study on highly ordered pyrolytic graphite. <i>Nanotechnology</i> , 2016 , 27, 485708	3.4	5
102	Three-dimensional interaction force and tunneling current spectroscopy of point defects on rutile TiO2(110). <i>Applied Physics Letters</i> , 2016 , 108, 071601	3.4	17
101	Exploring and Explaining Friction with the Prandtl-Tomlinson Model. ACS Nano, 2016, 10, 38-41	16.7	23
100	Robust high-resolution imaging and quantitative force measurement with tuned-oscillator atomic force microscopy. <i>Nanotechnology</i> , 2016 , 27, 065703	3.4	16
99	Friction Force Microscopy 2016 , 1251-1260		
98	Noncontact atomic force microscopy III. Beilstein Journal of Nanotechnology, 2016 , 7, 946-7	3	1
97	Simultaneous Measurement of Multiple Independent Atomic-Scale Interactions Using Scanning Probe Microscopy: Data Interpretation and the Effect of Cross-Talk. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 6670-6677	3.8	8
96	Noncontact Atomic Force Microscopy: An Emerging Tool for Fundamental Catalysis Research. <i>Accounts of Chemical Research</i> , 2015 , 48, 2640-8	24.3	28
95	Tribology. Tracking antiwear film formation. <i>Science</i> , 2015 , 348, 40-1	33.3	27
95 94	Tribology. Tracking antiwear film formation. <i>Science</i> , 2015 , 348, 40-1 Nanotribological Studies by Nanoparticle Manipulation. <i>Nanoscience and Technology</i> , 2015 , 363-393	0.6	27
94	Nanotribological Studies by Nanoparticle Manipulation. <i>Nanoscience and Technology</i> , 2015 , 363-393 Nanotribological studies using nanoparticle manipulation: Principles and application to structural	0.6	2
94	Nanotribological Studies by Nanoparticle Manipulation. <i>Nanoscience and Technology</i> , 2015 , 363-393 Nanotribological studies using nanoparticle manipulation: Principles and application to structural lubricity. <i>Friction</i> , 2014 , 2, 114-139	o.6 5.6	34
94 93 92	Nanotribological Studies by Nanoparticle Manipulation. <i>Nanoscience and Technology</i> , 2015 , 363-393 Nanotribological studies using nanoparticle manipulation: Principles and application to structural lubricity. <i>Friction</i> , 2014 , 2, 114-139 Noncontact atomic force microscopy II. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 289-90 Structural and Electronic Heterogeneity of Two Dimensional Amorphous Silica Layers. <i>Advanced</i>	o.6 5.6	2 34 2
94 93 92 91	Nanotribological Studies by Nanoparticle Manipulation. <i>Nanoscience and Technology</i> , 2015 , 363-393 Nanotribological studies using nanoparticle manipulation: Principles and application to structural lubricity. <i>Friction</i> , 2014 , 2, 114-139 Noncontact atomic force microscopy II. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 289-90 Structural and Electronic Heterogeneity of Two Dimensional Amorphous Silica Layers. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1400108 Understanding scanning tunneling microscopy contrast mechanisms on metal oxides: a case study.	0.65.634.6	2 34 2 20
94 93 92 91 90	Nanotribological Studies by Nanoparticle Manipulation. <i>Nanoscience and Technology</i> , 2015 , 363-393 Nanotribological studies using nanoparticle manipulation: Principles and application to structural lubricity. <i>Friction</i> , 2014 , 2, 114-139 Noncontact atomic force microscopy II. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 289-90 Structural and Electronic Heterogeneity of Two Dimensional Amorphous Silica Layers. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1400108 Understanding scanning tunneling microscopy contrast mechanisms on metal oxides: a case study. <i>ACS Nano</i> , 2013 , 7, 10233-44	0.65.634.616.7	2 34 2 20 41

(2009-2013)

86	Nonuniform friction-area dependency for antimony oxide surfaces sliding on graphite. <i>Physical Review B</i> , 2013 , 88,	3.3	9
85	Imaging physical phenomena with local probes: From electrons to photons. <i>Reviews of Modern Physics</i> , 2012 , 84, 1343-1381	40.5	70
84	Noncontact atomic force microscopy. Beilstein Journal of Nanotechnology, 2012, 3, 172-3	3	4
83	Probing three-dimensional surface force fields with atomic resolution: Measurement strategies, limitations, and artifact reduction. <i>Beilstein Journal of Nanotechnology</i> , 2012 , 3, 637-50	3	23
82	Advanced atomic force microscopy techniques. Beilstein Journal of Nanotechnology, 2012, 3, 893-4	3	16
81	Exploring atomic-scale lateral forces in the attractive regime: a case study on graphite (0001). <i>Nanotechnology</i> , 2012 , 23, 405703	3.4	8
80	Low-Temperature Scanning Probe Microscopy 2011 , 239-305		
79	Atomically smooth surfaces through thermoplastic forming of metallic glass. <i>Applied Physics Letters</i> , 2010 , 97, 101907	3.4	49
78	Dynamic Force Microscopy and Spectroscopy in Ambient Conditions: Theory and Applications 2010 , 71-	94	2
77	Frictional duality of metallic nanoparticles: Influence of particle morphology, orientation, and air exposure. <i>Physical Review B</i> , 2010 , 82,	3.3	31
76	Quantifying Pathways and Friction of Nanoparticles During Controlled Manipulation by Contact-Mode Atomic Force Microscopy. <i>Tribology Letters</i> , 2010 , 39, 273-281	2.8	22
75	Three-dimensional atomic force microscopy - taking surface imaging to the next level. <i>Advanced Materials</i> , 2010 , 22, 2838-53	24	58
74	Mechanisms, kinetics, and dynamics of oxidation and reactions on oxide surfaces investigated by scanning probe microscopy. <i>Advanced Materials</i> , 2010 , 22, 2854-69	24	25
73	Low-Temperature Scanning Probe Microscopy 2010 , 663-709		2
72	Transition from static to kinetic friction of metallic nanoparticles. <i>Applied Physics Letters</i> , 2009 , 95, 053	1944	33
71	Data acquisition and analysis procedures for high-resolution atomic force microscopy in three dimensions. <i>Nanotechnology</i> , 2009 , 20, 264002	3.4	26
70	Measuring the friction of nanoparticles: a new route towards a better understanding of nanoscale friction. <i>ChemPhysChem</i> , 2009 , 10, 2373-82	3.2	37
69	Inside Cover: Measuring the Friction of Nanoparticles: A New Route towards a Better Understanding of Nanoscale Friction (ChemPhysChem 14/2009). <i>ChemPhysChem</i> , 2009 , 10, 2358-2358	3.2	1

68	Interface and electronic characterization of thin epitaxial Co3O4 films. Surface Science, 2009, 603, 291-	2978	33
67	Force microscopy: on the charge. <i>Nature Nanotechnology</i> , 2009 , 4, 477-8	28.7	2
66	Three-dimensional imaging of short-range chemical forces with picometre resolution. <i>Nature Nanotechnology</i> , 2009 , 4, 307-10	28.7	162
65	Comparison of the interaction of Pd with positively and negatively poled LiNbO3(0001). <i>Surface Science</i> , 2009 , 603, 3145-3154	1.8	19
64	Force Field Spectroscopy in Three Dimensions. <i>Nanoscience and Technology</i> , 2009 , 95-119	0.6	1
63	Combined low-temperature scanning tunneling/atomic force microscope for atomic resolution imaging and site-specific force spectroscopy. <i>Review of Scientific Instruments</i> , 2008 , 79, 033704	1.7	58
62	Surface Species Formed by the Adsorption and Dissociation of Water Molecules on a Ru(0001) Surface Containing a Small Coverage of Carbon Atoms Studied by Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7445-7454	3.8	43
61	Principles of atomic friction: from sticking atoms to superlubric sliding. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008 , 366, 1383-404	3	79
60	Friction at atomic-scale surface steps: experiment and theory. <i>Physical Review Letters</i> , 2008 , 101, 2461	0 <i>5</i> 7.4	112
59	Frictional duality observed during nanoparticle sliding. <i>Physical Review Letters</i> , 2008 , 101, 125505	7.4	135
58	Low-Temperature Scanning Probe Microscopy 2008 , 179-234		
57	Theory of amplitude modulation atomic force microscopy with and without Q-Control. <i>International Journal of Non-Linear Mechanics</i> , 2007 , 42, 608-625	2.8	73
56	Interfacial friction obtained by lateral manipulation of nanoparticles using atomic force microscopy techniques. <i>Journal of Applied Physics</i> , 2007 , 102, 084306	2.5	68
55	Dynamic Force Microscopy and Spectroscopy in Vacuum 2007 , 506-533		
54	Low-Temperature Scanning Probe Microscopy 2007 , 679-716		
53	Nanotribological Studies by Nanoparticle Manipulation. <i>Nanoscience and Technology</i> , 2007 , 561-582	0.6	3
52	Q-controlled Dynamic Force Microscopy in Air and Liquids. <i>Nanoscience and Technology</i> , 2007 , 75-97	0.6	1
51	Imaging of biomaterials in liquids: a comparison between conventional and Q-controlled amplitude modulation ('tapping mode') atomic force microscopy. <i>Nanotechnology</i> , 2006 , 17, S221-6	3.4	51

(2000-2005)

50	Contact-area dependence of frictional forces: Moving adsorbed antimony nanoparticles. <i>Physical Review B</i> , 2005 , 71,	3.3	93
49	A Generalized Analytical Model for the Elastic Deformation of an Adhesive Contact Between a Sphere and a Flat Surface 2005 , 365		
48	Interpretation of the atomic scale contrast obtained on graphite and single-walled carbon nanotubes in the dynamic mode of atomic force microscopy. <i>Nanotechnology</i> , 2005 , 16, S134-S137	3.4	25
47	Calculations of the threshold force and threshold power to move adsorbed nanoparticles. <i>Physical Review B</i> , 2005 , 71,	3.3	18
46	Low Temperature Scanning Probe Microscopy 2005 , 185-242		
45	SURROGATE-BASED HYPOTHESIS TEST WITHOUT SURROGATES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004 , 14, 2107-2114	2	5
44	Low Temperature Scanning Probe Microscopy 2004 , 413-447		
43	Low Temperature Scanning Probe Microscopy 2004 , 413-447		
42	A cryogenic scanning force microscope for the characterization of frozen biological samples. <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 76, 893-898	2.6	2
41	A generalized analytical model for the elastic deformation of an adhesive contact between a sphere and a flat surface. <i>Journal of Colloid and Interface Science</i> , 2003 , 261, 99-106	9.3	193
40	Stochastic forces in circumplanetary dust dynamics. Journal of Geophysical Research, 2003, 108,		7
39	Atomen auf den Zahn geffilt: Dynamische Rasterkraftmikroskopie. Physik in Unserer Zeit, 2002, 33, 178-	182	2
38	Dynamic force microscopy with atomic resolution at low temperatures. <i>Applied Surface Science</i> , 2002 , 188, 245-251	6.7	21
37	Controlled Translational Manipulation of Small Latex Spheres by Dynamic Force Microscopy. <i>Langmuir</i> , 2002 , 18, 7798-7803	4	51
36	Low-Temperature Measurements: Principles, Instrumentation, and Application. <i>Nanoscience and Technology</i> , 2002 , 233-256	0.6	1
35	Simulation of NC-AFM images of xenon(111). <i>Applied Physics A: Materials Science and Processing</i> , 2001 , 72, S35-S38	2.6	20
34	Investigation of the swelling of human skin cells in liquid media by tapping mode scanning force microscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2001 , 72, S125-S128	2.6	36
33	Detection of doping atom distributions and individual dopants in InAs(110) by dynamic-mode scanning force microscopy in ultrahigh vacuum. <i>Physical Review B</i> , 2000 , 62, 13617-13622	3.3	23

32	Interpretation of E rue atomic resolution images of graphite (0001) in noncontact atomic force microscopy. <i>Physical Review B</i> , 2000 , 62, 6967-6970	3.3	78
31	Dynamic-mode scanning force microscopy study of n-InAs(110)-(111) at low temperatures. <i>Physical Review B</i> , 2000 , 61, 2837-2845	3.3	62
30	Atomic resolution in scanning force microscopy: Concepts, requirements, contrast mechanisms, and image interpretation. <i>Physical Review B</i> , 2000 , 62, 13089-13097	3.3	28
29	Quantitative analysis of dynamic-force-spectroscopy data on graphite(0001) in the contact and noncontact regimes. <i>Physical Review B</i> , 2000 , 61, 12678-12681	3.3	86
28	Atomic-Scale Friction Studies Using Scanning Force Microscopy. <i>Mechanics & Materials Science</i> , 2000		2
27	Dynamic scanning force microscopy at low temperatures on a noble-gas crystal: Atomic resolution on the xenon(111) surface. <i>Europhysics Letters</i> , 1999 , 48, 276-279	1.6	51
26	Determination of Tip-Sample Interaction Potentials by Dynamic Force Spectroscopy. <i>Physical Review Letters</i> , 1999 , 83, 4780-4783	7.4	122
25	Dynamic scanning force microscopy at low temperatures on a van der Waals surface: graphite (0001). <i>Applied Surface Science</i> , 1999 , 140, 247-252	6.7	64
24	Simultaneous imaging of the In and As sublattice on InAs(110)-(111) with dynamic scanning force microscopy. <i>Applied Surface Science</i> , 1999 , 140, 293-297	6.7	58
23	Calculation of the frequency shift in dynamic force microscopy. <i>Applied Surface Science</i> , 1999 , 140, 344	-36. †	122
22	Length Scales of Clustering in Granular Gases. <i>Physical Review Letters</i> , 1999 , 82, 4819-4822	7.4	13
21	The velocity dependence of frictional forces in point-contact friction. <i>Applied Physics A: Materials Science and Processing</i> , 1998 , 66, S263-S267	2.6	90
20	Consequences of the stick-slip movement for the scanning force microscopy imaging of graphite. <i>Physical Review B</i> , 1998 , 57, 2477-2481	3.3	109
19	A scanning force microscope with atomic resolution in ultrahigh vacuum and at low temperatures. <i>Review of Scientific Instruments</i> , 1998 , 69, 221-225	1.7	101
18	Origin of the ferroelectric domain contrast observed in lateral force microscopy. <i>Physical Review B</i> , 1998 , 57, 161-169	3.3	51
17	Quantitative analysis of the frictional properties of solid materials at low loads. II. Mica and germanium sulfide. <i>Physical Review B</i> , 1997 , 56, 6997-7000	3.3	46
16	Quantitative analysis of the frictional properties of solid materials at low loads. I. Carbon compounds. <i>Physical Review B</i> , 1997 , 56, 6987-6996	3.3	247
15	Modelling of the scan process in lateral force microscopy. <i>Surface Science</i> , 1997 , 375, 395-402	1.8	70
15	Modelling of the scan process in lateral force microscopy. <i>Surface Science</i> , 1997 , 375, 395-402	1.8	7º

LIST OF PUBLICATIONS

14	Nanomechanical investigations and modifications of thin films based on scanning force methods. <i>Nanotechnology</i> , 1996 , 7, 346-350	3.4	9
13	Simulation of a scanned tip on a NaF(001) surface in friction force microscopy. <i>Europhysics Letters</i> , 1996 , 36, 19-24	1.6	58
12	Quantitative analysis of lateral force microscopy experiments. <i>Review of Scientific Instruments</i> , 1996 , 67, 2560-2567	1.7	129
11	Load-dependent topographic and friction studies of individual ion tracks in layered materials by scanning force microscopy and lateral force microscopy. <i>Physical Review B</i> , 1996 , 53, R16180-R16183	3.3	5
10	Determination of miller indices of side faces of small crystallites from scanning force microscopy angle measurements. <i>Surface and Interface Analysis</i> , 1995 , 23, 409-415	1.5	3
9	Low-load friction behavior of epitaxial C60 monolayers under Hertzian contact. <i>Physical Review B</i> , 1995 , 52, 14976-14984	3.3	88
8	Growth of C60 thin films on GeS(001) studied by scanning force microscopy. <i>Physical Review B</i> , 1995 , 52, 5967-5976	3.3	33
7	Anisotropy of sliding friction on the triglycine sulfate (010) surface. <i>Applied Physics A: Materials Science and Processing</i> , 1995 , 61, 525-533	2.6	68
6	Tip artefacts in scanning force microscopy. <i>Journal of Microscopy</i> , 1994 , 173, 183-197	1.9	91
5	A miniature fibre optic force microscope scan head. <i>Measurement Science and Technology</i> , 1993 , 4, 769-	7 7 5	40
4	Scanning probe microscopy for industrial applications: Selected examples. <i>Scanning</i> , 1993 , 15, 257-264	1.6	1
3	Plate-like microcrystals of silver bromide investigated by scanning force microscopy. <i>Ultramicroscopy</i> , 1992 , 41, 435-439	3.1	4
2	The atomic force microscope used as a powerful tool for machining surfaces. <i>Ultramicroscopy</i> , 1992 , 42-44, 1446-1451	3.1	75
1	Voltage-dependent pore activity of the peptide alamethicin correlated with incorporation in the membrane: salt and cholesterol effects. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1988 , 941, 11-8	3.8	31